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from where it is transported to the cytosol. The ER retention domain is located at the position of domain III in PE. The ER retention domain comprises an amino acid sequence that has, at its carboxy terminus, an ER retention sequence. The ER retention sequence in native PE is REDLK (SEQ ID NO:11). Lysine can be eliminated (i.e., REDL (SEQ ID NO:12)) without a decrease in activity. REDLK (SEQ ID NO:11) can be replaced with other ER retention sequences, such as KDEL (SEQ ID NO:13), or polymers of these sequences. M. Ogata et al. (1990) J. Biol. Chem. 265:20678-85. Pastan et al., U.S. Patent 5,458,878. I. Pastan et al. (1992) Annu. Rev. Biochem. 61:331-54.--

Please cancel the present "SEQUENCE LISTING", pages 1-3, and insert therefor the accompanying paper copy of the Substitute Sequence Listing, page numbers 1 to 9, at the end of the application.

REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-13, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



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